

# 2-(2-(2-(2-nonyloxy-ethoxy)-ethoxy)-ethoxy)-ethanol

<b>Other names:</b>	Tetraethylene glycol, nonyl ether
<b>Inchi:</b>	InChI=1S/C17H36O5/c1-2-3-4-5-6-7-8-10-19-12-14-21-16-17-22-15-13-20-11-9-18/h18H
<b>InchiKey:</b>	DMVZACIDVMMVJF-UHFFFAOYSA-N
<b>Formula:</b>	C17H36O5
<b>SMILES:</b>	CCCCCCCCCOCCOCCOCCOCCO
<b>Mol. weight [g/mol]:</b>	320.46

## Physical Properties

Property code	Value	Unit	Source
gf	-464.56	kJ/mol	Joback Method
hf	-1075.32	kJ/mol	Joback Method
hfus	48.63	kJ/mol	Joback Method
hvap	79.76	kJ/mol	Joback Method
log10ws	-2.55		Crippen Method
logp	2.796		Crippen Method
mvol	279.740	ml/mol	McGowan Method
pc	1252.15	kPa	Joback Method
rinpol	2339.00		NIST Webbook
rinpol	2339.00		NIST Webbook
tb	770.22	K	Joback Method
tc	943.67	K	Joback Method
tf	431.09	K	Joback Method
vc	1.079	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	875.54	J/mol×K	770.22	Joback Method
cpg	892.93	J/mol×K	799.13	Joback Method
cpg	909.42	J/mol×K	828.04	Joback Method
cpg	925.03	J/mol×K	856.95	Joback Method
cpg	939.74	J/mol×K	885.85	Joback Method
cpg	953.55	J/mol×K	914.76	Joback Method
cpg	966.47	J/mol×K	943.67	Joback Method

dvisc	0.0006229	Paxs	431.09	Joback Method
dvisc	0.0002058	Paxs	487.61	Joback Method
dvisc	0.0000856	Paxs	544.13	Joback Method
dvisc	0.0000420	Paxs	600.65	Joback Method
dvisc	0.0000233	Paxs	657.18	Joback Method
dvisc	0.0000142	Paxs	713.70	Joback Method
dvisc	0.0000093	Paxs	770.22	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R184248&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R184248&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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